

Title (en)
SILOXANE COMPOSITION NOT RELEASING HYDROGEN FOR THE MOULDING/DEMOULDING OF TYRES

Title (de)
KEINEN WASSERSTOFF FREISETZENDE SILOXANZUSAMMENSETZUNG ZUM FORMEN/ENTFORMEN VON REIFEN

Title (fr)
COMPOSITION A BASE DE SILOXANE, NE DEGAGEANT PAS D HYDROGENE, DESTINEE AU MOULAGE-DEMOULAGE DE PNEUMATIQUES

Publication
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Application
EP 03746336 A 20030411

Priority

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- FR 0214757 A 20021125

Abstract (en)
[origin: FR2838447A1] Oil-in-water emulsion comprises a reactive linear polyorganosiloxane oil with at least two hydroxy groups, a polyorganosiloxane resin with condensable hydroxy groups, a crosslinking agent, a catalyst, a surfactant and water. Oil-in-water emulsion comprises: (a) optionally an inert linear polyorganosiloxane oil with lubricating properties, having a dynamic viscosity of 0.05-3000 Pa.s at 25degreesC, the polyorganosiloxane being a homo- or copolymer with silicon-bonded alkyl, cycloalkyl, alkenyl, aryl, alkaryl and/or aralkyl groups; (b) a reactive linear polyorganosiloxane oil with at least two hydroxy groups, having a dynamic viscosity of 0.05-200000 Pa.s at 25degreesC; (c) a polyorganosiloxane resin having 0.1-10 wt.% of condensable hydroxy groups and comprising at least two different units selected from M, D, T and Q units, at least one of which is a T or Q unit, the mean number of organic substituents per silicon atom being 1-2; (d) a silicon-soluble crosslinking agent with at least two functions capable of reacting with the resin of (c); (e) a condensation catalyst capable of catalyzing the crosslinking reaction; (f) a surfactant; and (g) water. The (a)/(b) weight ratio is 0-10 and components (a)-(d) are mixed before forming the emulsion. An Independent claim is also included for an article coated with the emulsion and optionally heated.

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